Assignment Submission

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```
CREATE DATABASE ORG;

SHOW DATABASES;

USE ORG;
```

```
CREATE TABLE Worker (
	WORKER_ID INT NOT NULL PRIMARY KEY ,
	FIRST_NAME varchar(255),
	LAST_NAME varchar(255),
	SALARY INT,
	JOINING_DATE date,
	DEPARTMENT varchar(255)
);
INSERT INTO Worker
	(WORKER_ID, FIRST_NAME, LAST_NAME, SALARY, JOINING_DATE, DEPARTMENT) VALUES
		(001, 'Monika', 'Arora', 100000, '02/14/20', 'HR'),
		(002, 'Niharika', 'Verma', 80000, '06/14/11', 'Admin'),
		(003, 'Vishal', 'Singhal', 300000, '02/14/20', 'HR'),
		(004, 'Amitabh', 'Singh', 500000, '02/12/20', 'Admin'),
		(005, 'Vivek', 'Bhati', 500000, '06/14/11', 'Admin'),
		(006, 'Vipul', 'Diwan', 200000, '06/14/11', 'Account'),
		(007, 'Satish', 'Kumar', 75000, '01/14/20', 'Account'),
		(008, 'Geetika', 'Chauhan', 90000, '04/14/11', 'Admin');
```

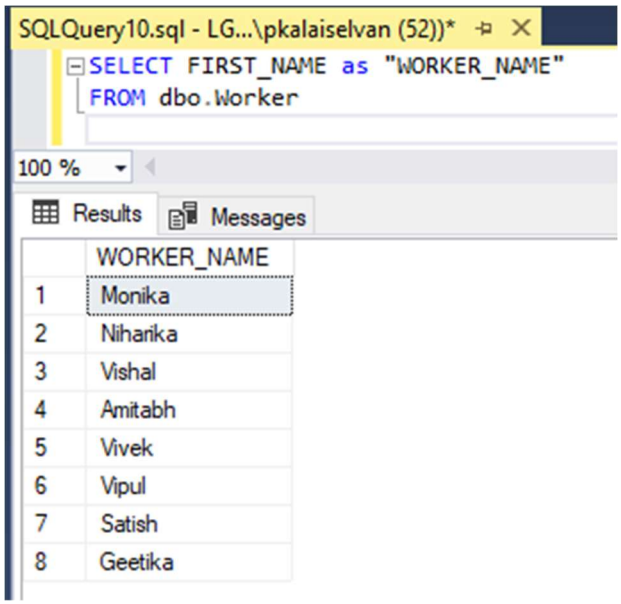
```
CREATE TABLE Bonus (
	WORKER_REF_ID INT,
	BONUS_AMOUNT Int,
	BONUS_DATE DATETIME,
	FOREIGN KEY (WORKER_REF_ID)
		REFERENCES Worker(WORKER_ID)
	 ON DELETE CASCADE
);
INSERT INTO Bonus
	(WORKER_REF_ID, BONUS_AMOUNT, BONUS_DATE) VALUES
		(001, 5000, '02/16/20'),
		(002, 3000, '06/16/11'),
		(003, 4000, '02/16/20'),
		(001, 4500, '02/16/20'),
		(002, 3500, '06/16/11');
CREATE TABLE Title (
	WORKER_REF_ID INT,
	WORKER_TITLE varCHAR(255),
```

```
        AFFECTED_FROM DATETIME,
        FOREIGN KEY (WORKER_REF_ID)
               REFERENCES Worker(WORKER_ID)
         ON DELETE CASCADE
);

INSERT INTO Title
        (WORKER_REF_ID, WORKER_TITLE, AFFECTED_FROM) VALUES
 (001, 'Manager', '2016-02-20 00:00:00'),
 (002, 'Executive', '2016-06-11 00:00:00'),
 (008, 'Executive', '2016-06-11 00:00:00'),
 (005, 'Manager', '2016-06-11 00:00:00'),
 (004, 'Asst. Manager', '2016-06-11 00:00:00'),
 (007, 'Executive', '2016-06-11 00:00:00'),
 (006, 'Lead', '2016-06-11 00:00:00'),
 (003, 'Lead', '2016-06-11 00:00:00');
```

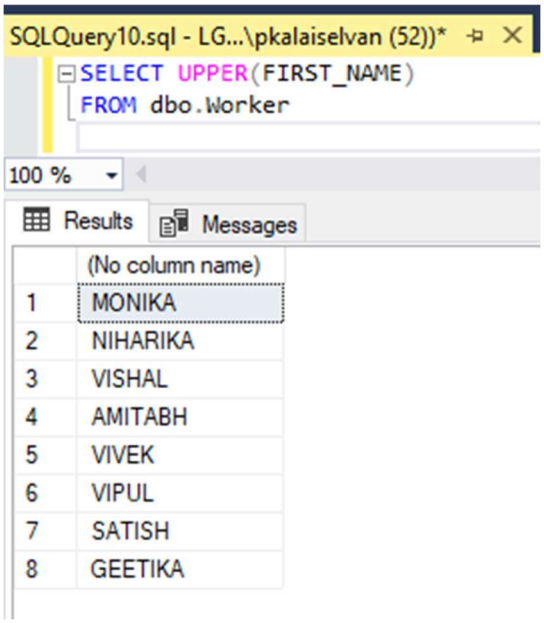
Q-1. Write an SQL query to fetch “FIRST_NAME” from Worker table using the alias name as <WORKER_NAME>.

```
SELECT FIRST_NAME as "WORKER_NAME"
FROM dbo.Worker
```



Q-2. Write an SQL query to fetch “FIRST_NAME” from Worker table in upper case

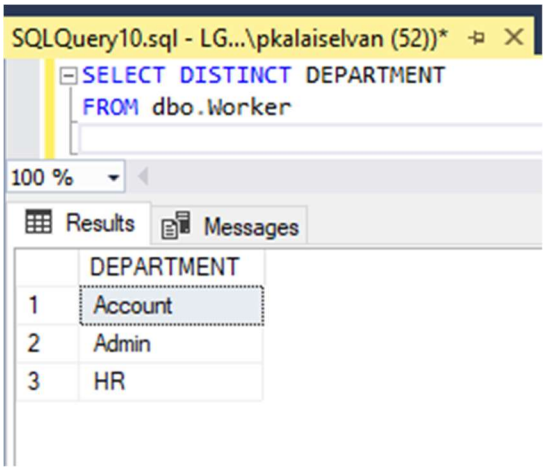
```
SELECT UPPER(FIRST_NAME)
FROM dbo.Worker
```



	(No column name)
1	MONIKA
2	NIHARIKA
3	VISHAL
4	AMITABH
5	VIVEK
6	VIPUL
7	SATISH
8	GEETIKA

Q-3. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

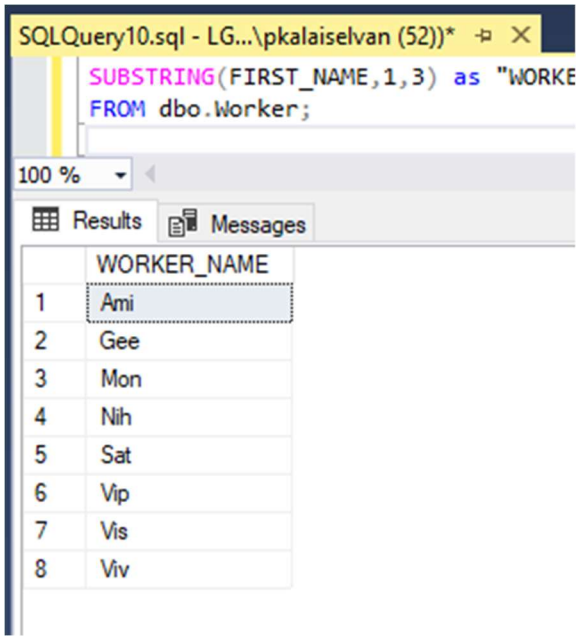
```
SELECT DISTINCT DEPARTMENT
FROM dbo.Worker
```



	DEPARTMENT
1	Account
2	Admin
3	HR

Q-4. Write an SQL query to print the first three characters of FIRST_NAME from Worker table.

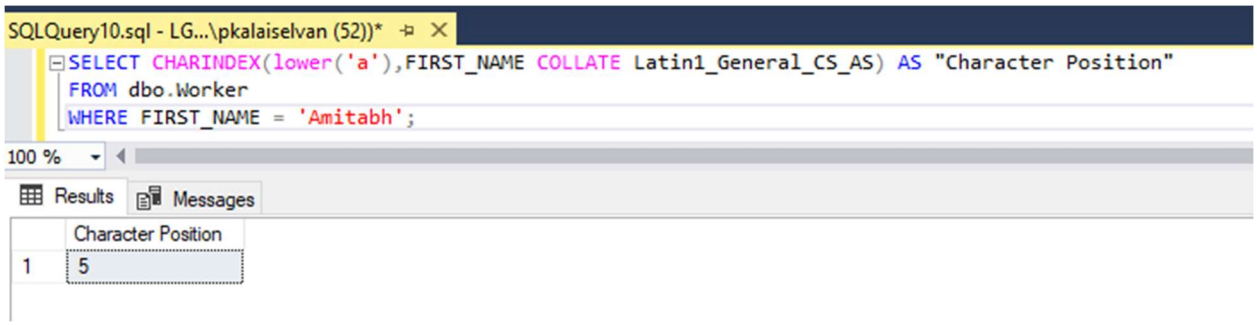
```
SELECT DISTINCT
SUBSTRING(FIRST_NAME,1,3) as "WORKER_NAME"
FROM dbo.Worker;
```



Q-5. Write an SQL query to find the position of the alphabet (‘a’) in the first name column ‘Amitabh’ from Worker table.

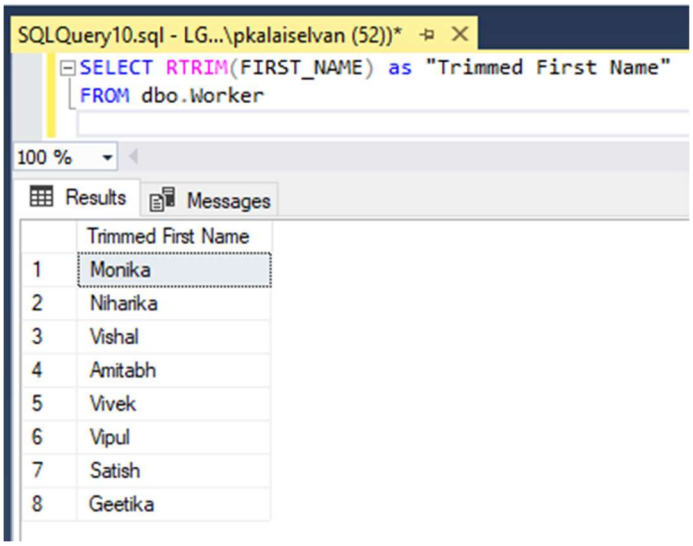
```
SELECT CHARINDEX(lower('a'),FIRST_NAME COLLATE Latin1_General_CS_AS) AS "Character Position"
FROM dbo.Worker
WHERE FIRST_NAME = 'Amitabh';
```

- COLLATE function will help to search alphabet with case sensitive



Q-6. Write an SQL query to print the FIRST_NAME from Worker table after removing white spaces from the right side.

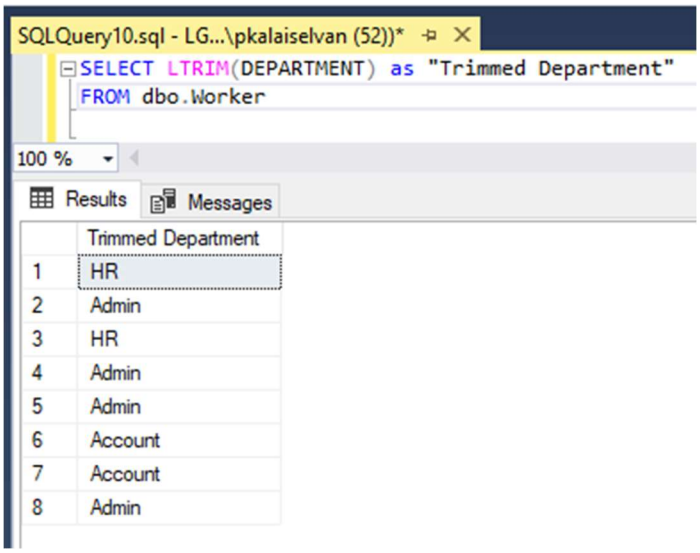
```
SELECT RTRIM(FIRST_NAME) as "Trimmed First Name"
FROM dbo.Worker
```



	Trimmed First Name
1	Monika
2	Niharika
3	Vishal
4	Amitabh
5	Vivek
6	Vipul
7	Satish
8	Geetika

Q-7. Write an SQL query to print the DEPARTMENT from Worker table after removing white spaces from the left side.

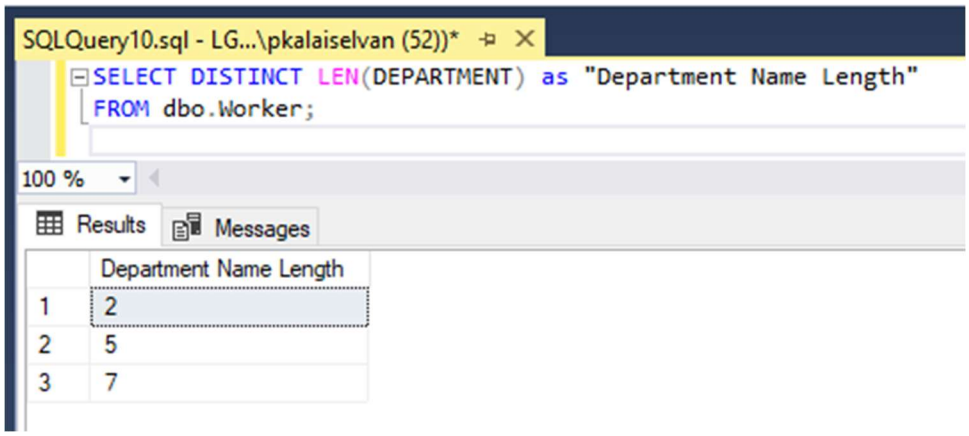
```
SELECT LTRIM(DEPARTMENT) as "Trimmed Department"
FROM dbo.Worker
```



	Trimmed Department
1	HR
2	Admin
3	HR
4	Admin
5	Admin
6	Account
7	Account
8	Admin

Q-8. Write an SQL query that fetches the unique values of DEPARTMENT from Worker table and prints its length.

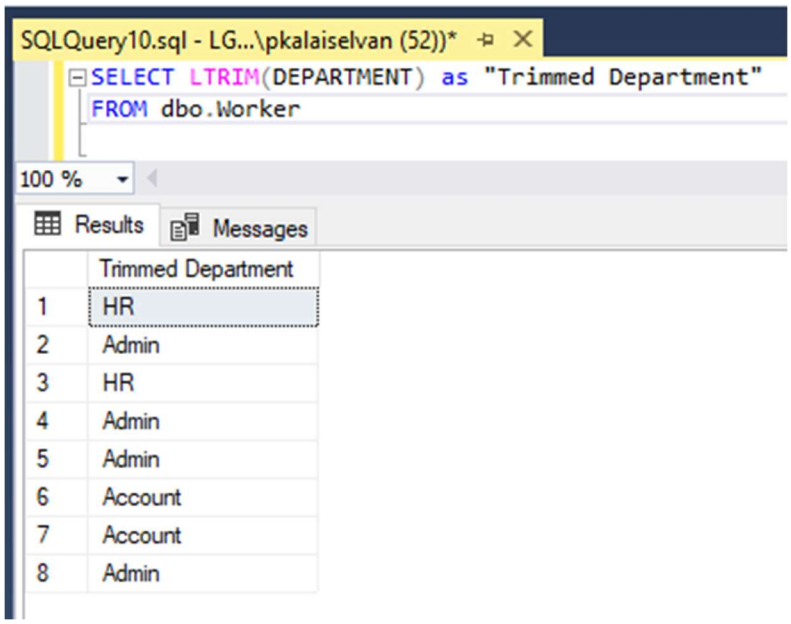
```
SELECT DISTINCT LEN(DEPARTMENT) as "Department Name Length"
FROM dbo.Worker;
```



	Department Name Length
1	2
2	5
3	7

Q-9. Write an SQL query to print the FIRST_NAME from Worker table after replacing ‘a’ with ‘A’

```
SELECT REPLACE(FIRST_NAME,'a','A') AS "Updated First Name"
FROM dbo.Worker;
```



	Trimmed Department
1	HR
2	Admin
3	HR
4	Admin
5	Admin
6	Account
7	Account
8	Admin

Q-10. Write an SQL query to print the FIRST_NAME and LAST_NAME from Worker table into a single column COMPLETE_NAME. A space char should separate them.

Can below two queries used to concatenate column values, both results will be same.

```
SELECT CONCAT_WS(' ',FIRST_NAME, LAST_NAME) AS "COMPLETE_NAME"
FROM dbo.Worker;

SELECT CONCAT(FIRST_NAME,' ', LAST_NAME) AS "COMPLETE_NAME"
FROM dbo.Worker;
```